June 16, 2004 - System Issues and Status

Table 1: Process Strategy/Geier as of 06/16/04
Active Requests in order of priority (1 of 3)

Production Request (PR)	Satellite	Production Strategy	Data Product (SS#)	PGEs	Data Dates	Special Status
PR 31-04		Edition2A	GGEO (SS11)	11.1P5 11.1P6 11.1P7 11.1P8 11.2P2 11.4P1	1/01 - 12/01 3/00 - 12/00 1/02 - 2/03	Done 6/2/04.
PR18-04	Terra	ValR1	SRBAVG (SS10)	10.1P1	3/00 - 2/03	**HOLDING - waiting for delivery.** Delivery date unknown at this time.
PR 56-04 to 58-04	Aqua	ValR1	SSF (SS4)	4.1-4.1P3 4.1-4.2P1 4.1-4.2P2 4.1-4.3P1 4.5-6.1P3 4.5-6.2P2 4.5-6.4P1	7/02, 12/02	
PR17-04	Terra	Edition2A	SRBAVG (SS10)	10.1P1	3/00- 2/03	**HOLDING -** ValR1 must be approved before this starts.
PR 55-04	Terra	Beta2	TSI (SS7.1)	7.1.1P1	5 months	Done 5/30/04.
Standing requests AM-PR 1-00 to 7-00	Terra	Edition1	BDS/ ERBElike (SS1-3)	1.1P3 1.2P1 1.3P1 1.3P2 2.1P1 2.2P1 2.3P1 2.3P2 3.1P1 ~~3.2P2~~	For 5/04 - present	DO NOT PROCESS 3.2P2 - it is on hold.

Table 1: Process Strategy/Geier as of 06/16/04
Active Requests in order of priority (2 of 3)

Production Request (PR)	Satellite	Production Strategy	Data Product (SS#)	PGEs	Data Dates	Special Status
Standing requests PM-PR 7-03A to 10-03	Aqua	Edition1	BDS/ ERBElike (SS1-3)	1.1P5 1.2P1 1.3P1 1.3P2 2.2P1 2.3P1 2.3P2 3.1P1 ~~3.2P2~~	For 5/04 - present	DO NOT PROCESS 3.2P2 - it is on hold.
Standing requests AM-PR 8A-02 to 11-02	Terra	Edition2	BDS/ ERBElike (SS1-3)	1.2P1 1.3P3 2.2P1 2.3P1 2.3P2 2.4P1 3.1P1 ~~3.2P2~~	For 7/03 - present	Process 7/03 - 12/03. DO NOT PROCESS 3.2P2 - it is on hold.
Standing requests PM-PR 11-03, 13-03 to 17-03	Aqua	Edition2	BDS/ ERBElike (SS1-3)	1.3P3 1.2P1 2.2P1 2.3P1 2.3P2 2.4P1 3.1P1 ~~3.2P2~~	For 7/03 - present	**HOLDING - waiting for Aqua Gains and SRF to be delivered and associated ValR4 to run.** DO NOT PROCESS 3.2P2 - it is on hold.
Standing request PM-PR 12-03	Aqua/ Terra	Edition2	ES4/ES9 (SS3)	3.2P1	For 7/03 - present	**HOLDING - waiting for both Terra and Aqua to have processed Edition2 data beyond 6/03.**
M-PR 3-02		NSIDC-NESDIS	EICE ESNOW (SS4.1)	4.1-4.0P1	Standing request	
M PR 2-04		GEOS4	MOA (SS12)	12.1P1	4/04 - present	Priority of MOA/ PMOA has dropped because ASDC is current. Standing request to process data as it arrives
M PR 1-04		GEOS4	PMOA (SS9.1)	9.1P1	2/04 - present	

Table 1: Process Strategy/Geier as of 06/16/04
Active Requests in order of priority (3 of 3)

Production Request (PR)	Satellite	Production Strategy	Data Product (SS#)	PGEs	Data Dates	Special Status
PR 97-03	Terra	Edition2-QC	SSF (SS4)	4.1-4.1P2 4.1-4.2P1 4.1-4.2P2 4.1-4.3P1	7/03 - 12/03	
PR 10-04, 11-04	Terra	Edition2A	SSF (SS4.5-6)	4.5-6.1P2 4.5-6.2P2 4.5-6.4P1	7/03 - 12/03	
PR 9-04	Terra	Edition2A	SFC (SS9)	9.2P1 9.3P1 9.4P1	7/03 - 12/03	
PR 53-04, 54-04	Aqua-FM4	BetaGERB	SSF (SS4)	4.1-4.1P3 4.1-4.2P1 4.1-4.2P2 4.1-4.3P1 4.5-6.1P3 4.5-6.2P2	4/04	**HOLDING - waiting on MOA inputs.**
PR 52-04	Aqua-FM4	BetaGERB	SFC (SS9)	9.2P1 9.3P1 9.4P1	4/04	**HOLDING - waiting on BetaGERB SSF and PMOA inputs.**
PR 116-03	TRMM	Beta3	TSI (SS7.1)	7.1.1P1	1/98 - 8/98 3/00	

Table 2: Process Strategy/Geier as of 06/16/04
Coming Soon (1 of 2)

Active Month	Satellite	Processing Strategy	Data Product (SS#)	Data Dates	Comments
	Aqua	ValR1	SFC(SS9)	7/02, 12/02	Delivery 6/4/04.
	Terra	ValR5	SSF(SS4)	12/01, 6/02	Inversion only (alternate main) delivery 6/18/04.
	Terra	ValR5	CRS(SS5)	?	Delivery 6/11/04.
	Aqua	Edition1A	SSF(SS4)	First 12 months	
	Aqua	Edition1A	SFC(SS9)	First 12 months	
	Aqua	ValR4	BDS/ERBE-like(SS1-3)	1 month	Verify newly delivered gains and spectral response functions.
	Terra	Beta2	Synoptic SARB (SS7.2)	3/00, 4/00, 1/01, 7/01, 10/01	6/18/04 delivery.
	TRMM	Beta3	Synoptic SARB (SS7.2)	9 months	6/18/04 delivery - lower priority than TRMM.
7/04	Terra	Edition2B	SSF (SS4.5-6)	50 months	Updated ADMs, code correction, correct clear area coverage as needed (50-60 deg lat), new cloud classification parameter; delivery expected 6/18/04.
	Terra	Edition2B	CRS(SS5)	50 months	Delivery expected 5/28/04.
	Terra	Edition2B	SFC (SS9)	50 months	6/4/04 delivery.
	Terra	Edition2B	FSW(SS6)	50 months	Assuming no delivery needed.
	Aqua	Edition1A	SRBAVG (SS10)	7/02 - 6/03	Unknown delivery date; requires GGEO for 3/03 - 6/03 which has never been processed.
8/04	Terra	ValR4	BDS/ERBE-like(SS1-3)	1 month	Verify newly delivered gains and spectral response functions.
		ValR11	GGEO (SS11)	4 months	3/03 - 6/03; requires redelivery to handle GOES-9 and GOES-12; requires coefficients.
		Edition2A	GGEO (SS11)	4 months	3/03 - 6/03; ValR11 must be approved.
	Aqua	Beta1	CRS(SS5)	First 12 months	July delivery ??
	Aqua	Beta1	FSW (SS6)	First 12 months	Test at SCF to verify no redelivery needed.

Table 2: Process Strategy/Geier as of 06/16/04
Coming Soon (2 of 2)

Active Month	Satellite	Processing Strategy	Data Product (SS#)	Data Dates	Comments
	TRMM	Beta3	SYN/AVG/ ZAVG (SS8)	9 months	7/23/04 delivery.
	Terra	Beta2	SYN/AVG/ ZAVG (SS8)	3/00, 4/00, 1/01, 7/01, 10/01	7/23/04 delivery.
9/04	Aqua	Edition1A	SSF(SS4)	Second 12 months	
	Aqua	Edition1A	SFC(SS9)	Second 12 months	
	Terra	Edition2B	SRBAVG (SS10)	50 months	
10/04		ValR11	GGEO (SS11)	? months	7/03 - 6/04; requires coefficients.
		Edition2A	GGEO (SS11)	7/03 - 6/04	
	TRMM	Beta4	Synoptic SARB (SS7.2)	9 months	
	Terra	Beta3	Synoptic SARB (SS7.2)	12 months	
11/04	TRMM	Beta4	SYN/AVG/ ZAVG (SS8)	9 months	
	Terra	Beta3	SYN/AVG/ ZAVG (SS8)	12 months	
	Aqua	Beta3	SRBAVG (SS10)	7/03 - 6/04	
	Aqua	Beta1	TSI (SS7.1)		Not on Bruce's schedule.
	Aqua	Beta1	Synoptic SARB (SS7.2)		Not on Bruce's schedule.
	Aqua	Beta1	SYN/AVG/ ZAVG (SS8)		Not on Bruce's schedule.

Table 3: June 16, 2004 - System Issues and Status

Activity	Lead	Status
CM	Ayers	• See Table 4 for SCCR activity since the last DMT meeting. SCCRs that need to be reviewed follow Table 4. (Ayers) • Tested CERESlib (SCCR 538) and released it to the ASDC. (Saunders, Ayers) • Testing the Clouds delivery associated with SCCR 536. (Ayers) • Delivered the updated gains for Aqua FM3 and FM4 for July 1, 2003 through Feb. 29, 2004 to the ASDC. (Saunders) • Delivered the updated Spectral Response Function files for Aqua FM3 and FM4 Edition2 for July 1, 2003 through February 29, 2004 to the ASDC. (Saunders) • Attended CMMI training. (Ayers)

Table 4: SCCR Activity June 1 at 11:20 a.m. - June 14 at 4:15 p.m.

SCCR	S	U	A	C	D	SS	Page No.	Comments
528		X	X			7.1	7	CERESlib modifications
530			X			6 & 9		
532				X		5		
533			X			4.5-4.6		
534			X			4.4		
535			X			6 & 9		
536			X			4.1 - 4.4		
537	X	X	X			CERESlib	9	
538	X		X			CERESlib	11	

S=Submitted; **U**=Updated; **A**=Approved; **C**=Closed; **D**=Disapproved; **SS**=Subsystem

CERES Software Configuration Change Request Submittal
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*** All changes described in this SCCR were made in CERESlib. ***

Subsystem: TISAavg7.1   SCCR Date & TIME: 2004-05-18 12:13:06   SCCR No.: 528

Description of Change (Science):
A data type flag is added to the TSI flux structure.

Reason for Change (Science):
As requested by the scientist to help identifying whether the clear-sky or total-sky SW or LW
TOA flux is the CERES, GGEO or interpolated data.

Description of Change (non-Science):
None

Reason for Change (non-Science):
None

Affected PGEs   : CER7.1P1.1

Est. Time to Complete Changes : Complete
Planned Delivery Date   : May 18, 2004
Impact   : Subsystem 7.2

Originator: NGUYEN, CATHY   (SAIC)

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ADDITIONAL CHANGES TO SCCR NO. 528:
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Description of Change (Science):
Flag - Type of TOA flux was added to the TSI fluxes structure in the TSI data.

Reason for Change (Science):
This 4-digits parameter is used to identify the TOA flux type of the total-sky and clear-sky of SW
and LW fluxes.

The digit numbers are in the following order:
  1. Clear-sky LW flux
  2. Clear-sky SW flux
  3. Total-sky LW flux
  4. Total-sky SW flux

 If meaning of each digit number:

* 1 : CERES data
* 2 : GGEO data
* 3 : interpolated data
* 0 : default

Description of Change (non-Science):
n/a

Reason for Change (non-Science):
n/a

Affected PGEs   :CER7.1P1.1

Est. Time to Complete Changes : Complete
Planned Delivery Date   : Delivered
Impact   : Subsystem 7.2, 8.0
Date & Time: 2004-06-07 15:01:09

Originator: NGUYEN, CATHY   (SAIC)

CERES Software Configuration Change Request Submittal
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*** All changes described in this SCCR were made in CERESlib. ***

Subsystem: CERESlib   SCCR Date: 06/03/2004   SCCR Number: 537

Description of Change (Science):
n/a

Reason for Change (Science):
n/a

Description of Change (non-Science):
1. Two programs added to the CERESlib bin directory
   - read_logreport.exe: makes time summary from LogReport file
   - date_convert.exe: interactive program to convert between date formats, e.g. julian <-> calendar

2. Modified the mail_PGE_summary.csh script to put date/time summary information on a single line.

Reason for Change (non-Science):
1. These programs could be useful to others.
2. The new date/time format is easier to read.

Affected PGEs   : GGEO PGEs use mail_PGE_summary.csh to mail PGE summary to analyst

Est. Time to Complete Changes   : today
Planned Delivery Date   : Friday June 4, 2004
Impact   : minimal to none
Date: 06/03/2004   Status: SUBMITTED

Originator: STASSI, JOE C.   (SAIC)

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ADDITIONAL CHANGES TO SCCR NO. 537:
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Description of Change (Science):
n/a

Reason for Change (Science):
n/a

Description of Change (non-Science):

Adding the sequence_number_alt() function to the grid_nest_routines.f90 and reference_grid.f90 modules.

Reason for Change (non-Science):
This allows users to directly access the nested grid region sequence number from the colatitude and longitude.

Affected PGEs   : none

Est. Time to Complete Changes   : complete
Planned Delivery Date   : Friday June 4, 2004
Impact   : available for future use
Date & Time: 2004-06-04 16:11:48

Originator: STASSI, JOE C.   (SAIC)

CERES Software Configuration Change Request Submittal

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*** All changes described in this SCCR were made in CERESlib. ***

Subsystem: CERESlib   SCCR Date & TIME: 2004-06-03 11:56:29   SCCR No.: 538

Description of Change (Science):
see SCCRs
#525 (CERESlib) ceres_valregions.f90
#528 (TISA Avg 7.1) tsi_type_mod.f90
#530 (TISA Grid) fsw.f90, sfc_type_def.f90, tisa_grid_type_def.f90
#533 (Inversion) ssf2hdf_params.f90, ssf_typdef.f90
#534 (Cloud4.4) GRing.f90
#537 (CERESlib) utility programs

Reason for Change (Science):
see SCCRs #525, #528, #530, #533, #534, #537

Description of Change (non-Science):
see SCCRs #525, #528, #530, #533, #534, #537

Reason for Change (non-Science):
see SCCRs #525, #528, #530, #533, #534, #537

Affected PGEs   :
see SCCRs #525, #528, #530, #533, #534, #537

Est. Time to Complete Changes : n/a
Planned Delivery Date   : Friday June 4, 2004
Impact   : see SCCRs #525, #528, #530, #533, #534, #537

Originator: STASSI, JOE C.   (SAIC)

Table 5: June 16, 2004 - Subsystem Issues and Status (1 of 5)

SS No.	SS Lead	Status	Problems
1.0	Cooper	• Continued tracking receipt of Aqua and Terra data at ASDC. (Cooper, Snyder) • Updated Gains for the Aqua instruments were delivered to CERES CM on June 11. (Cooper) • Attended Intro to CMMI 3 day course. (Cooper, Spence) • "Validation of CERES instruments aboard the Terra and Aqua satellites" by Szewczyk, Smith and Priestley is to appear in the JGR after it's been reviewed. (Szewczyk) • FM1/FM4 summer solstice validation campaign is under way. (Szewczyk) • FM2/GERB summer solstice validation campaign is under way. (Szewczyk)	
2.0	Walikainen	• Continuing to examine the production email generated by the QC checker software. (Walikainen) • Continuing to inspect ERBE-like Aqua and Terra output plots and QC reports on the Web. (Walikainen) • Generating Edition Comparison plots for each instrument. (Walikainen) • Delivered Aqua Edition 2 Spectral Response Functions [Jul03-Feb04]. (Walikainen) • Attended CMMI training course June 8-10. (Walikainen)	
3.0	Walikainen	Combined with above.	

Table 5: June 16, 2004 - Subsystem Issues and Status (2 of 5)

SS No.	SS Lead	Status	Problems
4.1	Sun-Mack	• Processed CloudVis images for Terra-MODIS data for Marie Byrd Land region from October 2001 through April 2002. Cloudvis images were also produced for TRMM-VIRSonly data for the Dry Tortugas region from February 1999 through December 1999 and for the Peru Coast region from January 1998 through January 1999. (R. Brown) • Processed Terra-MODIS Edition2-QC QC global images and statistics from July through August 2003. Processed Zonal and Zonal Cloud Amount seasonal statistical results for Terra MODIS Edition2-QC Summer 2003. Results are posted on the web. (R. Brown) • Worked on Aqua Delivery for SCCR#536. (Chen, Trepte, R. Brown, Gibson, Miller, Sun-Mack) • Participated CMMI training. (Sun-Mack) • Collocated a new aircraft: CIFEX with Terra-MODIS and Aqua-MODIS for April 2004. The microphysics and macrophysics for collocated pixels were generated, plotted, averaged, and posted on the web. (Gibson, Chen, Sun-Mack)	
4.2	Sun-Mack	Combined with above.	
4.3	Sun-Mack	Combined with above.	
4.4	Miller	• Performed analysis of the two methods to handle water and IGBP type. Obtained science approval. (Miller) • Started analysis of using VIIRS clouds for ERBS processing. (Miller) • Monitored clouds processing. Three, 11, 6, 8, 14, and 11 hours failed for May, June, July, August. September, and October respectively. Two hours ended with segmentation faults and three hours did not process in convolution. Some hours in May and June did not have MODIS data. The remaining hours did not have corresponding IESs. (Miller)	

Table 5: June 16, 2004 - Subsystem Issues and Status (3 of 5)

SS No.	SS Lead	Status	Problems
4.5	Nolan	• Continued work to convert Norman Loeb's Edition2B SW Flux modules to work with Inversion PGE CER4.5-6.3P2. (Hoppe) • Continued testing Norman Loeb's Edition2B SW, LW and WN flux modules in Inversion PGE CER4.5-6.1P3. (Nolan) • Corrected ADMGEO parameter calculation and created all available hours for July 1, 2003 Aqua FM3 SSF binary and HDF files for an IGBP type study. (Nolan) • Copied several months of FM2 daytime subsets from the ASDC archive to the Inversion disks for Norman Loeb. (Nolan and Hoppe)	
4.6	Nolan	Combined with above.	
5.0	Coleman	• Incorporating a few last minute changes before delivery. (Caldwell, Zentz) • Evaluated impacts of new OS and compiler. No problems found with either using an executable generated with the current OS and compiler or with recompiling on the test bed. (Zentz, Caldwell) • Modifying Monthly QC Summary Post-Processor to be consistent with new validation regions recently added to CERESlib. (Zentz)	
7.2	Coleman	• Incorporating a few last minute changes before delivery. (Caldwell, Zentz) • Evaluated impacts of new OS and compiler. No problems found with either using an executable generated with the current OS and compiler or with recompiling on the test bed. (Zentz, Caldwell)	
12.0	Coleman	• Determined the existing Regrid MOA Subsystem executable runs fine with new OS and compiler. Cannot recompile, however, with existing 32-bit ECMWF libraries. Need to implement 64-bit version, for which all the interfaces are not the same. (Caldwell)	
7.1	Nguyen	• No new updates.	

SS No.	SS Lead	Status	Problems
8.0	Nguyen	• No new updates.	
10.0	Nguyen	• Install Doelling's GGEO narrow-band to broadband conversion code into TISA averaging code. Tested the code and found that some of the narrow-band albedos were so big. Reported the problems to Doelling. (Nguyen) • Got modified code from Doelling and made 20 runs for TRMM and Terra with different cases suggested by Dave Young. The output data are given to Dave Young for further analysis. (Nguyen) • Dave Young requested a set up directory and instructions to run SRBAVG to get the global average in case he needs it. Preparing for the instructions before going on vacation. (Nguyen)	
6.0	Raju	• Operator's manual and test plan documents were updated to include the changes. (Raju) • Preparing for subsystem delivery. (Raju)	
9.0	Raju	• Processed first 12 hours of August 2001 FM1 data at SCF and created overlap SFC hourly files. Ran PGE CER9.3P1 using the overlap files and generated July 2001 binary SFC product. Created gif images for LW & SW using view-hdf and sent them to Dave Young (RAB) as part of data validations. (Raju) • Helped Lin Chambers (RAB) in finding the reason for the segmentation faults while processing TRMM ADM code using SSF subsets as inputs. It was found that the program is set to use ceres defaults instead of SSF subset defaults. (Raju) • Processed several hours of December and July 2001 FM1 data at SCF and compared the generated outputs with the production versions to evaluate the code changes. (Raju) • Operator's manual and test plan documents were updated to include the changes. (Raju) • Preparing for subsystem delivery. (Raju)	

Table 5: June 16, 2004 - Subsystem Issues and Status (5 of 5)

SS No.	SS Lead	Status	Problems
11.0	Stassi	• Reviewing the GGEO Web plots for the Edition2A production processing, March 2000 through February 2003. (Stassi) • Used corrected source code to generate new GGEO cloud plots at the SCF for all data months March 2000 through February 2003. (Stassi) • The lib-4211 error resurfaced during GGEO subsystem testing on the CERES testbed machine. Communicated with Michael Fan of SGI about this. He believes this is a bug which has been fixed in the 7.4.3m (not yet released) version of the compiler. He emailed a version of the updated dynamic library file for testing. It immediately cleared up the two instances where the error was occurring, but there is a new error which has not yet been resolved. (Stassi)	
CERESlib Stassi/Ayers		• Unable to use the secure copy command (scp) when updating CERESlib from *thunder* to *warlock*, and no suitable secure alternative has been found. The remote copy command (rcp) still works. (Stassi) • A new version of the sequence_number() function was added to the reference_grid module. The nested grid sequence number can now be calculated either from a colatitude/longitude pair (new) or from the region number (old). (Stassi) • Added the date_convert.exe program to the CERESlib bin directory to do interactive conversion between different date formats, e.g. Calendar <-> Julian. (Stassi)	The secure copy command (scp) does not work from thunder to *warlock*.